

Abstract:

Process for generating  $^1\text{O}_2$  in which an Sn(II) salt of the formula



in which X is an anion from the group consisting of trifluoromethanesulfonate, acetate, formate, oxalate, lactate, malonate, malate, tartrate, citrate, orthophosphate, sulfate, chloride, perchlorate and n is 1 or 2, is treated in an organic solvent at a temperature of from  $-80^\circ\text{C}$  to  $20^\circ\text{C}$  with 1 to 2 mol of ozone per mole of tin compound, and the  $^1\text{O}_2$  which forms is used directly for the oxidation of organic substrates which react with  $^1\text{O}_2$ .